

# PASS 3

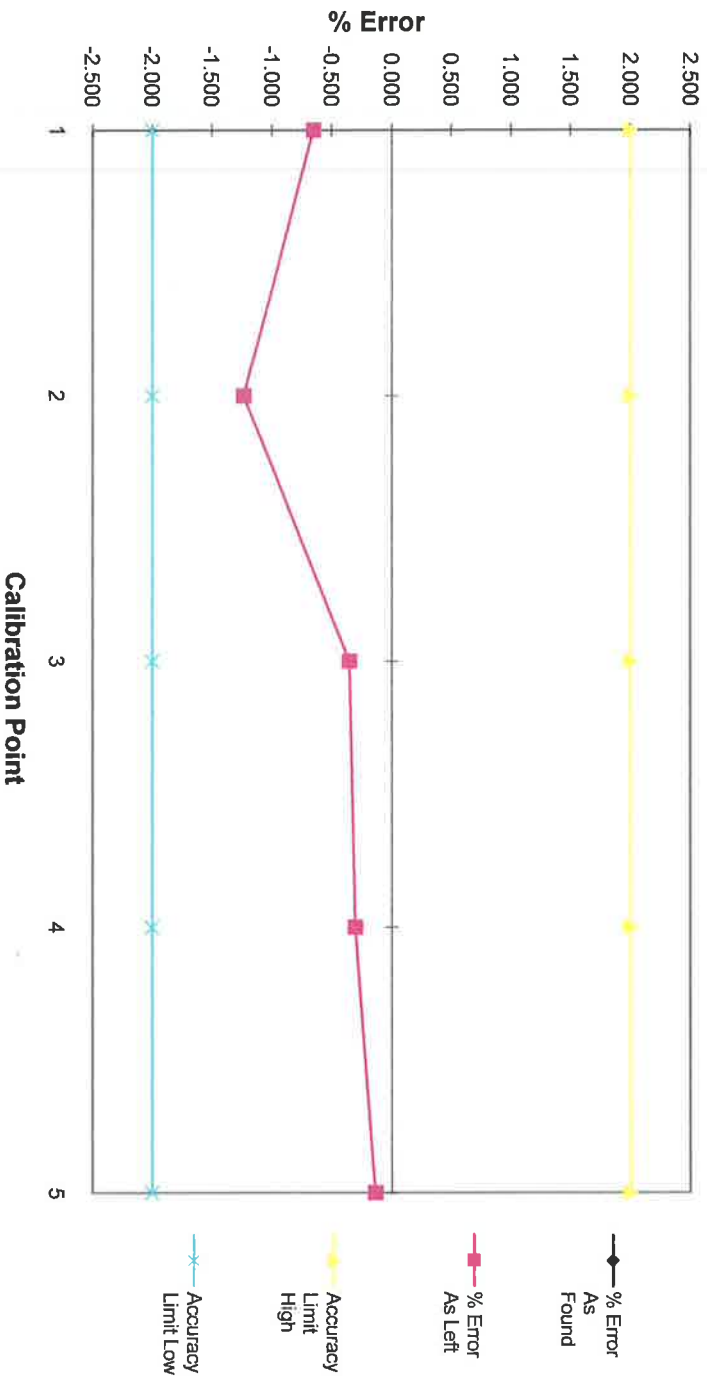
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>				Contract/P.O. No.		
Application/Service <b>Light Oil Control Box</b>				Tag No. <b>LOCB-IP</b>		
Manufacturer <b>Dwyer</b>		Model No. <b>2342</b>		Serial No. <b>703</b>		
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>	Characteristic <b>Linear</b>	Special		
Output Signal Range and Units						
Lo Range Value <b>3</b>	Hi Range Value <b>15</b>	Units <b>PSIG</b>	Characteristic <b>Linear</b>	Special		
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	3	2.922	-0.650	2.922	-0.650
25%	8	6	5.852	-1.233	5.852	-1.233
50%	12	9	8.958	-0.350	8.958	-0.350
75%	16	12	11.964	-0.300	11.964	-0.300
100%	20	15	14.984	-0.133	14.984	-0.133
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.	Instrument ID	NIST Cert. No.		
Input Device	Fluke Calibrator	725	On File	On File		
Output Device	Fluke Calibrator	725	On File	On File		
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By	Date Signed			
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Light Oil Control Box				LOCB-IP	
Manufacturer		Model No.		Serial No.	
Dwyer		2342		703	



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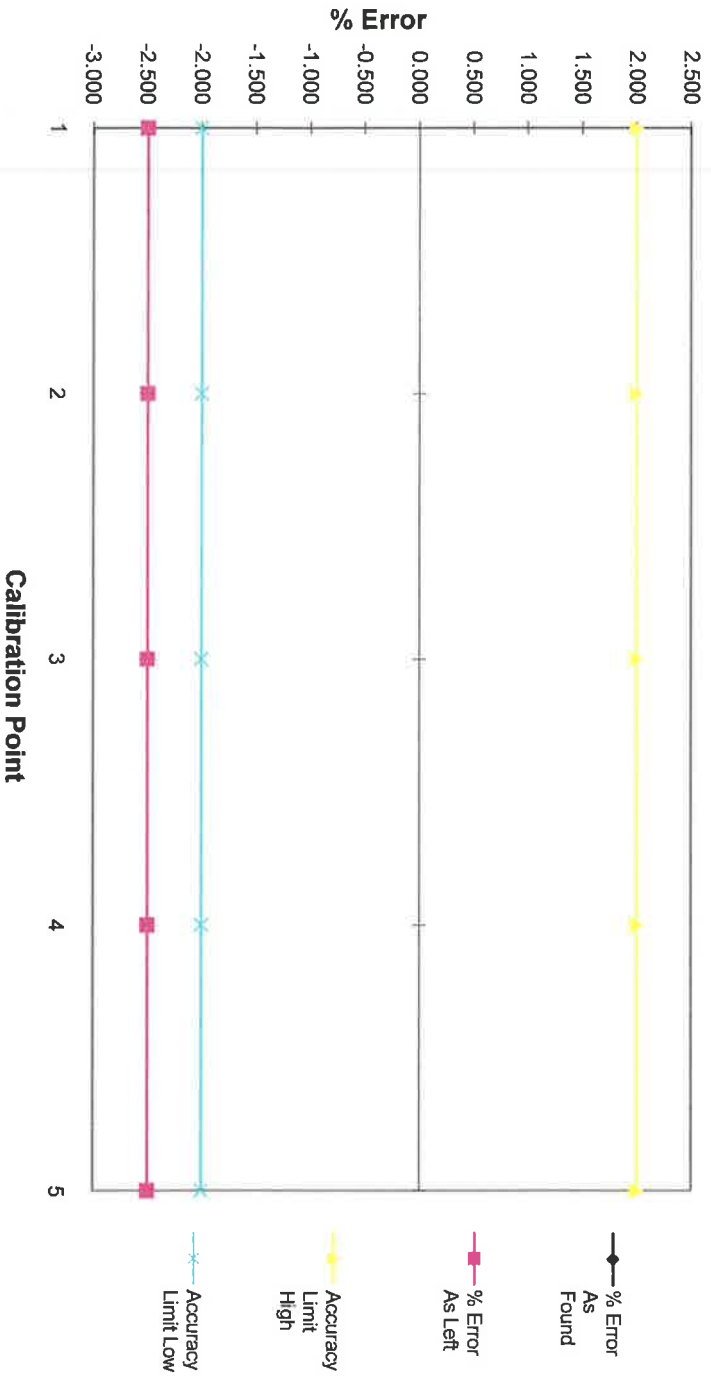
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Light Oil Control Box</b>					Tag No. <b>LOCB-MAG</b>	
Manufacturer <b>Magnehelic</b>		Model No. <b>N/A</b>			Serial No. <b>N/A</b>	
Instrument		<b>X</b>				
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>10</b>	Hi Range Value <b>50</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>10</b>	Hi Range Value <b>50</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	10	10	9	-2.500	9	-2.500
25%	20	20	19	-2.500	19	-2.500
50%	30	30	29	-2.500	29	-2.500
75%	40	40	39	-2.500	39	-2.500
100%	50	50	49	-2.500	49	-2.500
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	<b>Fluke Calibrator</b>	<b>725</b>		<b>On File</b>	<b>On File</b>	
Output Device	<b>Local</b>					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Light Oil Control Box				LOCB-MAG	
Manufacturer		Model No.		Serial No.	
Magnehelic		N/A		N/A	



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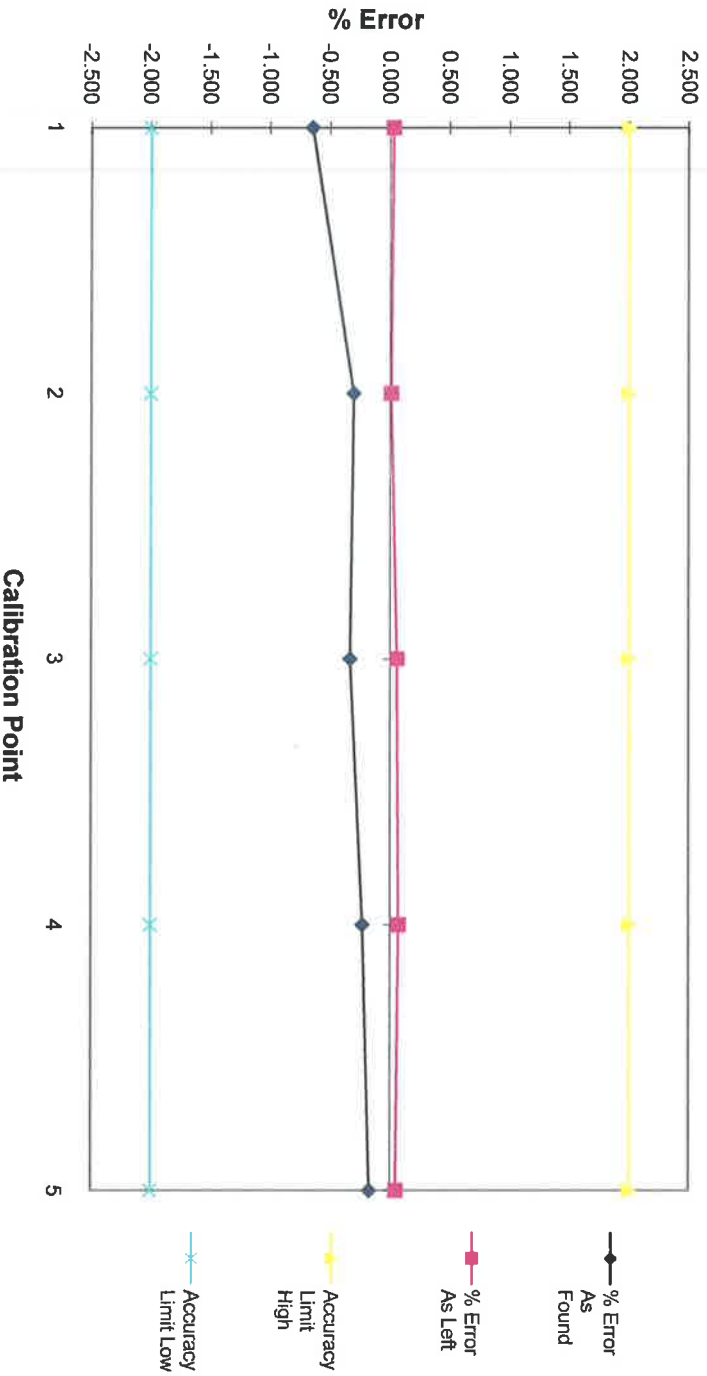
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Light Oil Control Box</b>					Tag No. <b>LOCB-PT</b>	
Manufacturer <b>Rosemount</b>		Model No. <b>3051CD1A22A1AB4K5</b>			Serial No. <b>1187845</b>	
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	-2	4	3.897	-0.644	4.005	0.031
25%	2	8	7.952	-0.300	8.002	0.013
50%	6	12	11.947	-0.331	12.010	0.062
75%	10	16	15.964	-0.225	16.012	0.075
100%	14	20	19.973	-0.169	20.008	0.050
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		On File	On File	
Output Device	Fluke Calibrator	725		On File	On File	
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Light Oil Control Box				LOCB-PT	
Manufacturer		Model No.		Serial No.	
Rosemount		3051CD1A22A1AB4K5		1187845	



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## Calibration

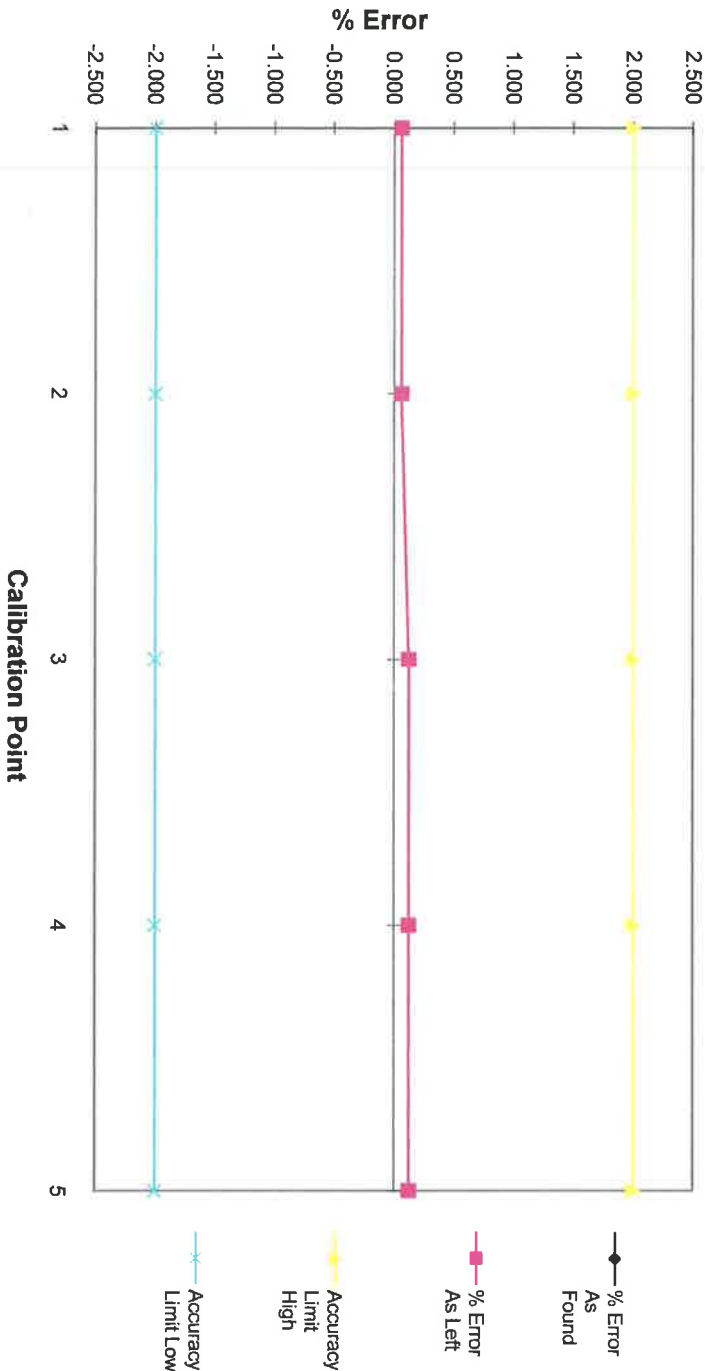
Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Light Oil Control Box</b>					Tag No. <b>LOCB-YC</b>	
Manufacturer <b>Yokogawa</b>		Model No. <b>UT-550</b>			Serial No. <b>TIC10628-303</b>	
Instrument		<b>X</b>				
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	-2	-1.99	0.063	-1.99	0.063
25%	8	2	2.01	0.062	2.01	0.062
50%	12	6	6.02	0.125	6.02	0.125
75%	16	10	10.02	0.125	10.02	0.125
100%	20	14	14.02	0.125	14.02	0.125
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	<b>Fluke Calibrator</b>	<b>725</b>		<b>On File</b>	<b>On File</b>	
Output Device	<b>Local Display</b>					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



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## Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Light Oil Control Box				LOCB-YC	
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		TIC10628-303	





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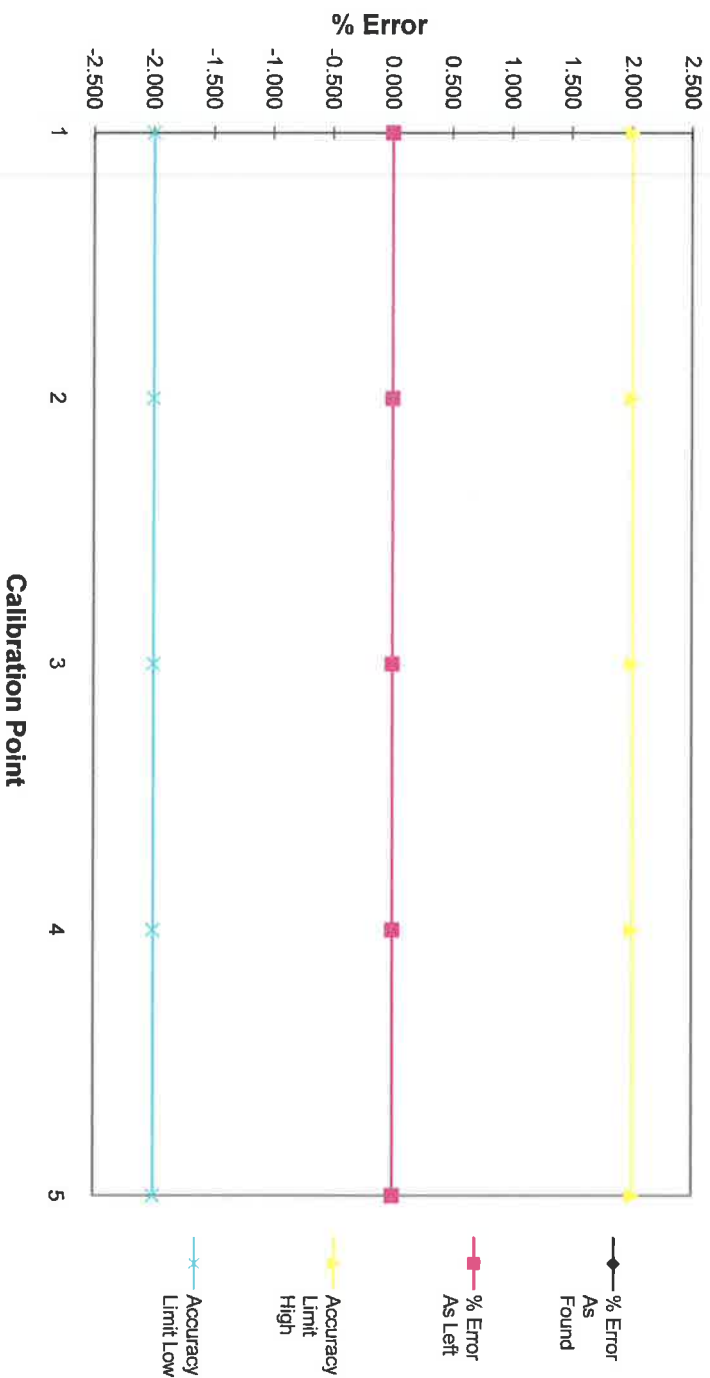
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>				Contract/P.O. No.		
Application/Service <b>Platform Control Box</b>				Tag No. <b>PCB-CV</b>		
Manufacturer <b>PMV</b>		Model No. <b>P-1200</b>		Serial No. <b>158910</b>		
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>0</b>	Hi Range Value <b>100</b>	Units <b>Percent</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	0.00				
25%	8.00	25.00				
50%	12.00	50.00				
75%	16.00	75.00				
100%	20.00	100.00				
Comments						
Note: control valve is span 0 to 20 percent						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725 700PD5		ON FILE	ON FILE	
Output Device	LOCAL					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service		Model No.		Tag No.	
Platform Control Box				PCB-CV	
Manufacturer		P-1200		Serial No.	
PMV				158910	



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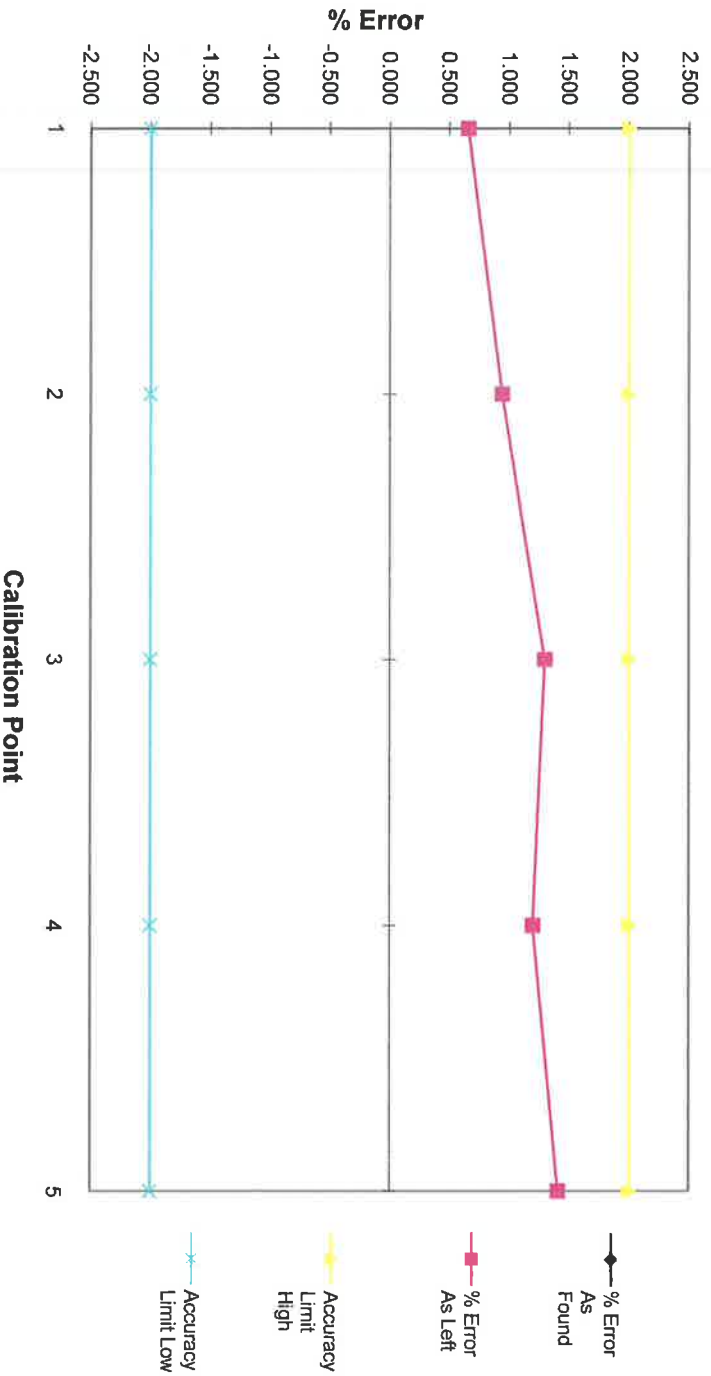
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.			
Application/Service <b>Platform Control Box</b>			Tag No. <b>PCB-IP</b>			
Manufacturer <b>Brandt</b>		Model No. <b>5131</b>		Serial No. <b>M513000F016280</b>		
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy	Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading			
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>	Characteristic <b>Linear</b>	Special		
Output Signal Range and Units						
Lo Range Value <b>3</b>	Hi Range Value <b>15</b>	Units <b>PSIG</b>	Characteristic <b>Linear</b>	Special		
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	3.00	3.079	0.658	3.079	0.658
25%	8.00	6.00	6.113	0.942	6.113	0.942
50%	12.00	9.00	9.156	1.300	9.156	1.300
75%	16.00	12.00	12.144	1.200	12.144	1.200
100%	20.00	15.00	15.169	1.408	15.169	1.408
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725 700PD5		ON FILE	ON FILE	
Output Device	Fluke Calibrator	725		ON FILE	ON FILE	
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Platform Control Box				PCB-IP	
Manufacturer		Model No.		Serial No.	
Brandt		5131		M513000F016280	



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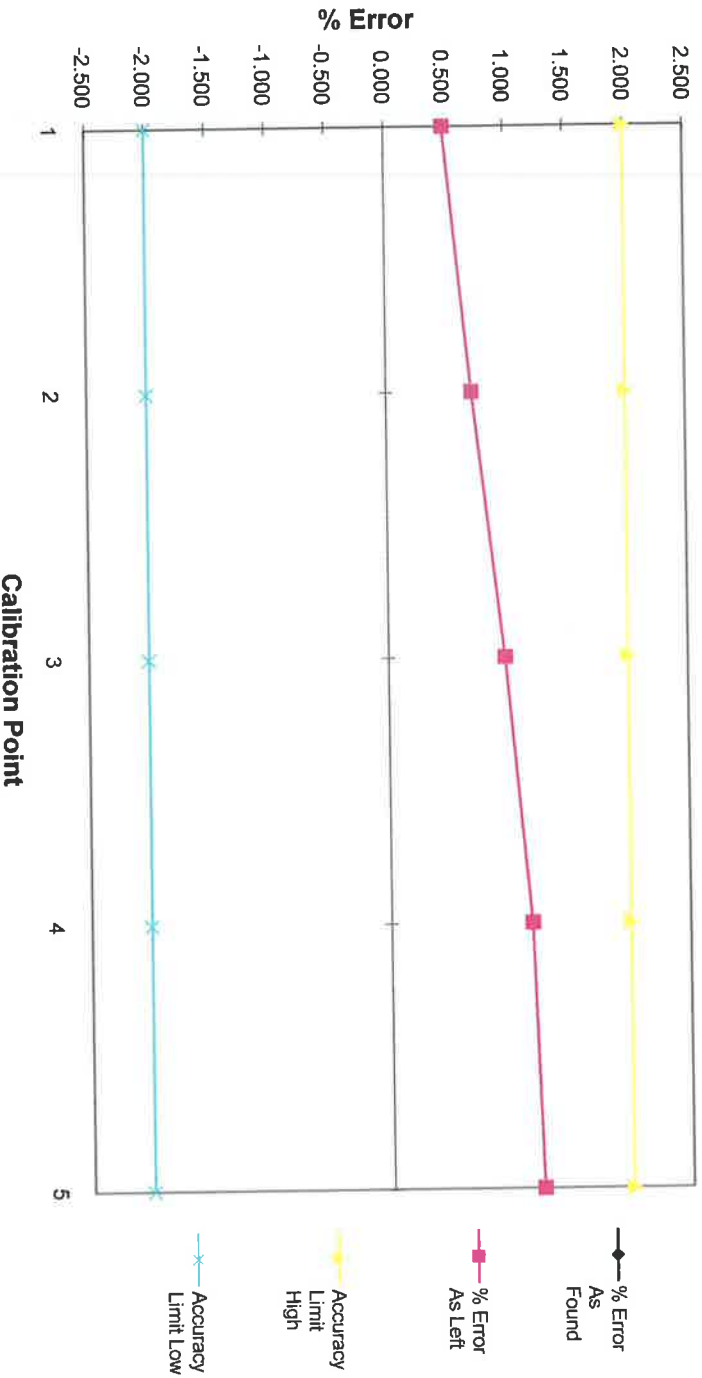
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>				Contract/P.O. No.		
Application/Service <b>Platform Control Box</b>				Tag No. <b>PCB-PT</b>		
Manufacturer <b>Moore</b>		Model No. <b>341DBA5AABNN313</b>		Serial No. <b>23835</b>		
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy	Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading			
Input Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>	Characteristic <b>Linear</b>	Special		
Output Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>	Characteristic <b>Linear</b>	Special		
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	-2.00	4.00	4.079	0.494	4.079	0.494
25%	2.00	8.00	8.115	0.719	8.115	0.719
50%	6.00	12.00	12.156	0.975	12.156	0.975
75%	10.00	16.00	16.189	1.181	16.189	1.181
100%	14.00	20.00	20.201	1.256	20.201	1.256
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725 700PD5		ON FILE	ON FILE	
Output Device	Fluke Calibrator	725		ON FILE	ON FILE	
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



## Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Platform Control Box				PCB-PT	
Manufacturer		Model No.		Serial No.	
Moore		341DBA5AABNN313		23835	



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## Calibration Certification

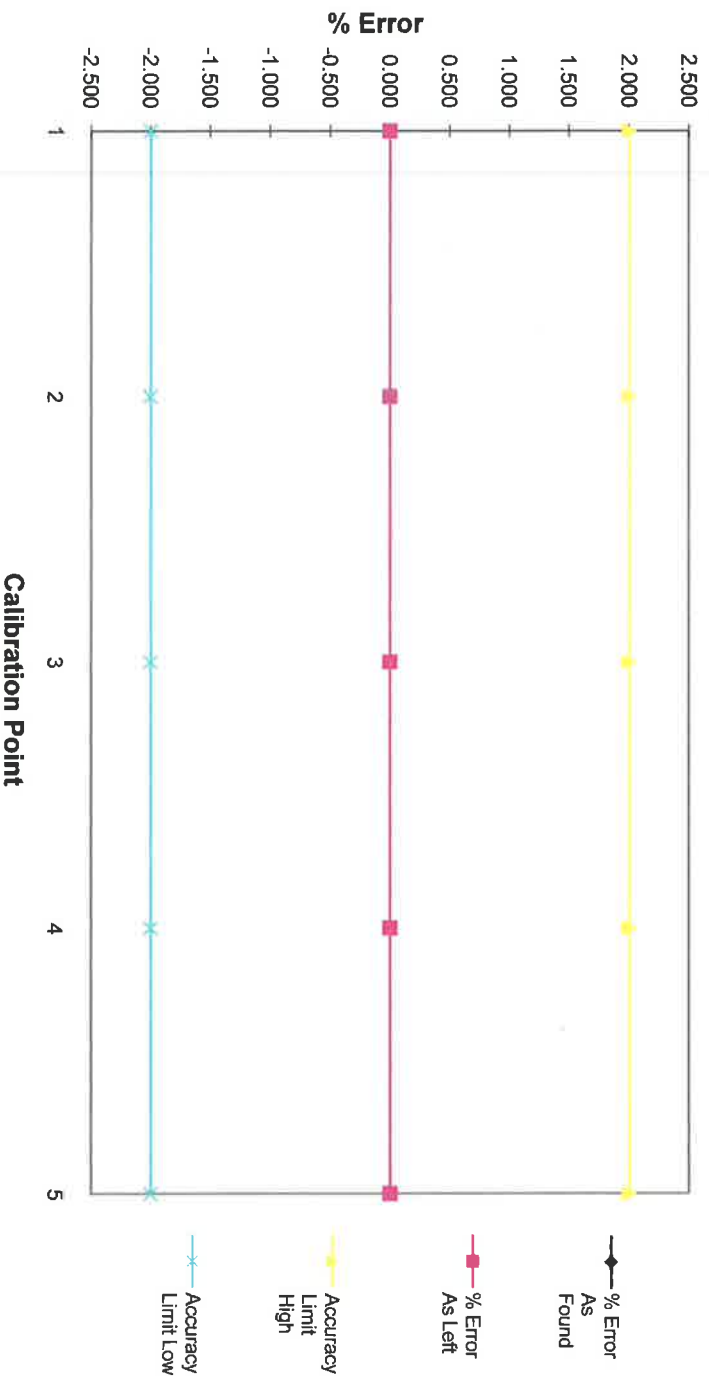
Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Platform Control Box</b>					Tag No. <b>PCB-YC1</b>	
Manufacturer <b>Yokogawa</b>		Model No. <b>UT-550</b>			Serial No. <b>T50075U314-830</b>	
Instrument		<b>X</b>				
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	-2.00	-2.000	0.000	-2.000	0.000
25%	8.00	2.00	2.000	0.000	2.000	0.000
50%	12.00	6.00	6.000	0.000	6.000	0.000
75%	16.00	10.00	10.000	0.000	10.000	0.000
100%	20.00	14.00	14.000	0.000	14.000	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	<b>Fluke Calibrator</b>	<b>725</b>		<b>8218055</b>	<b>1000195484</b>	
Output Device	<b>Local Display</b>					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				





# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Platform Control Box				PCB-YC1	
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		T50075U314-830	



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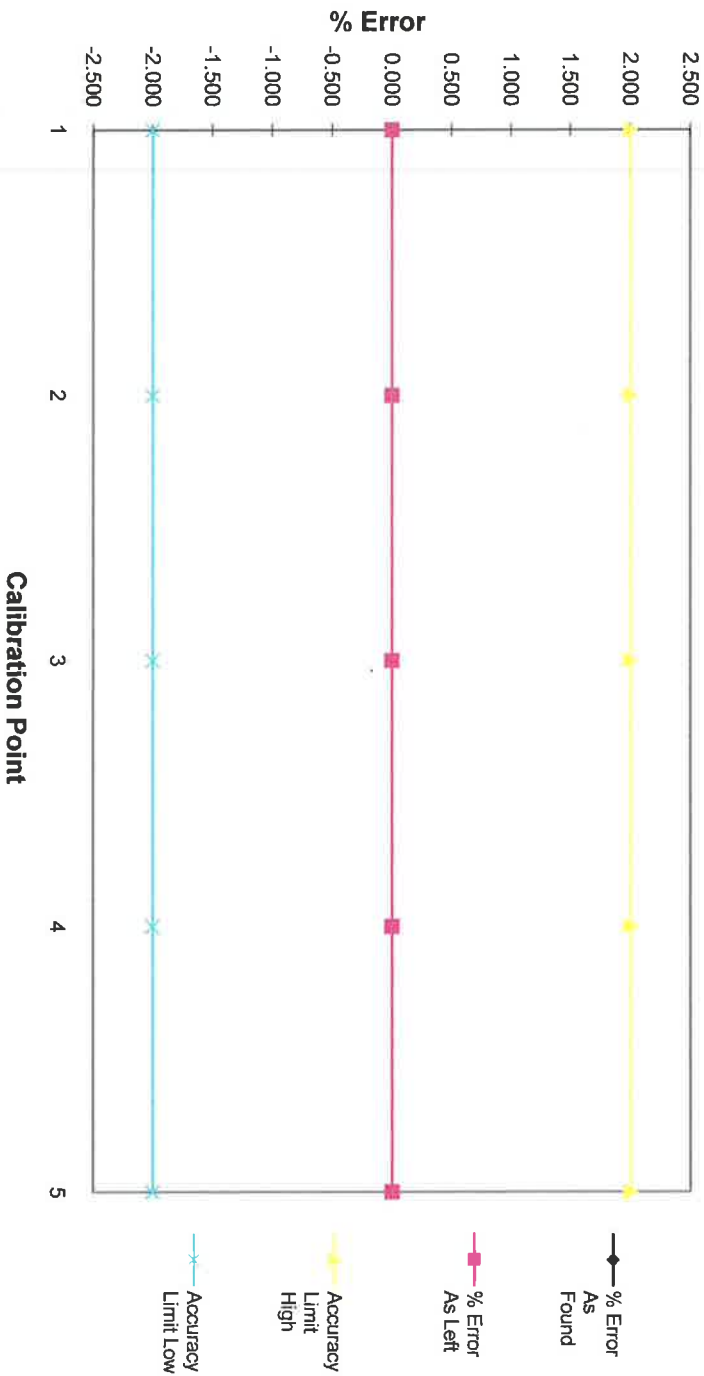
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.			
Application/Service <b>Platform Control Box</b>			Tag No. <b>PCB-YC2</b>			
Manufacturer <b>Yokogawa</b>		Model No. <b>UT-550</b>		Serial No. <b>N/A</b>		
Instrument		<b>X</b>				
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>1</b>	Hi Range Value <b>5</b>	Units <b>VDC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	1.00	-2.00	-2.000	0.000	-2.000	0.000
25%	2.00	2.00	2.000	0.000	2.000	0.000
50%	3.00	6.00	6.000	0.000	6.000	0.000
75%	4.00	10.00	10.000	0.000	10.000	0.000
100%	5.00	14.00	14.000	0.000	14.000	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		ON FILE	ON FILE	
Output Device	Local Display					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Platform Control Box				PCB-YC2	
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		N/A	



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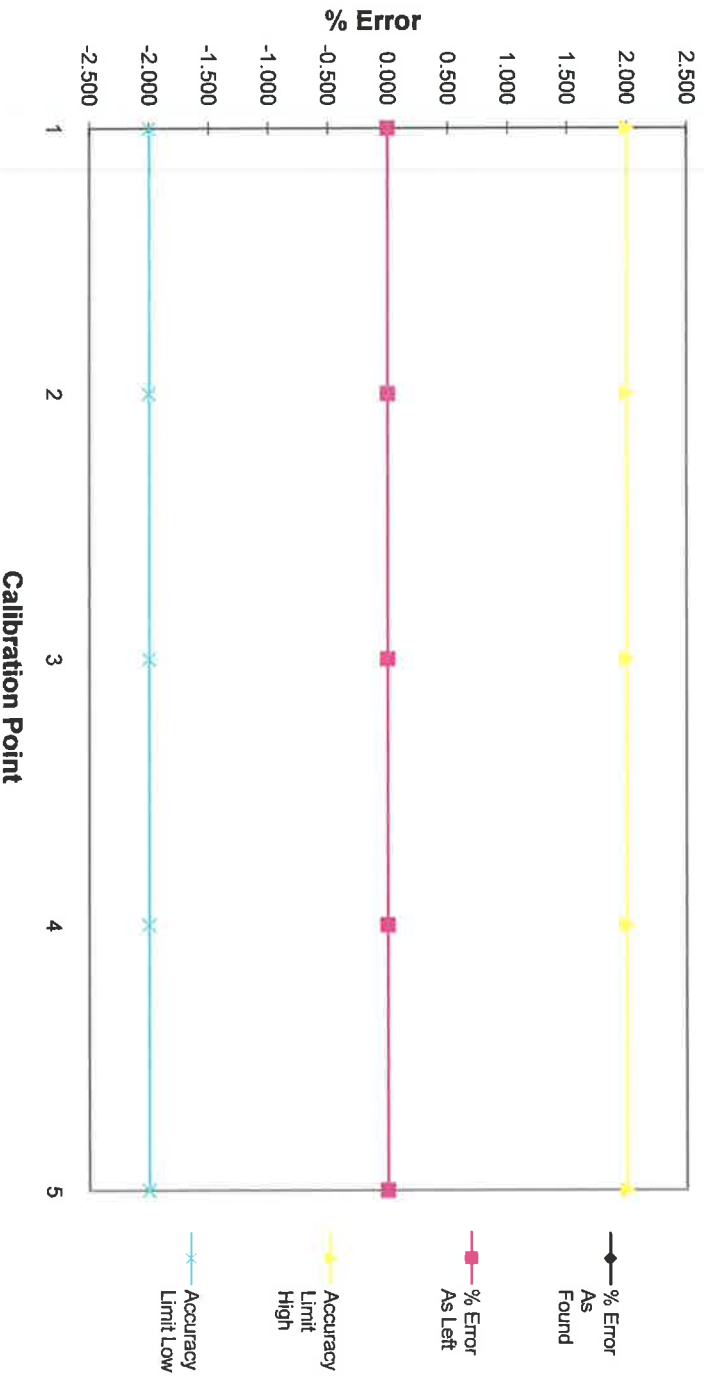
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.			
Application/Service <b>Process Water Decanter</b>			Tag No. <b>PWD-CV</b>			
Manufacturer <b>Fisher</b>		Model No. <b>1052</b>		Serial No. <b>15363423</b>		
Instrument			<b>X</b>			
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>0</b>	Hi Range Value <b>100</b>	Units <b>Percent</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	0.00	0	0.000	0	0.000
25%	8.00	25.00	25	0.000	25	0.000
50%	12.00	50.00	50	0.000	50	0.000
75%	16.00	75.00	75	0.000	75	0.000
100%	20.00	100.00	100	0.000	100	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



## Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Process Water Decante				PWD-CV	
Manufacturer		Model No.		Serial No.	
Fisher		1052		15363423	



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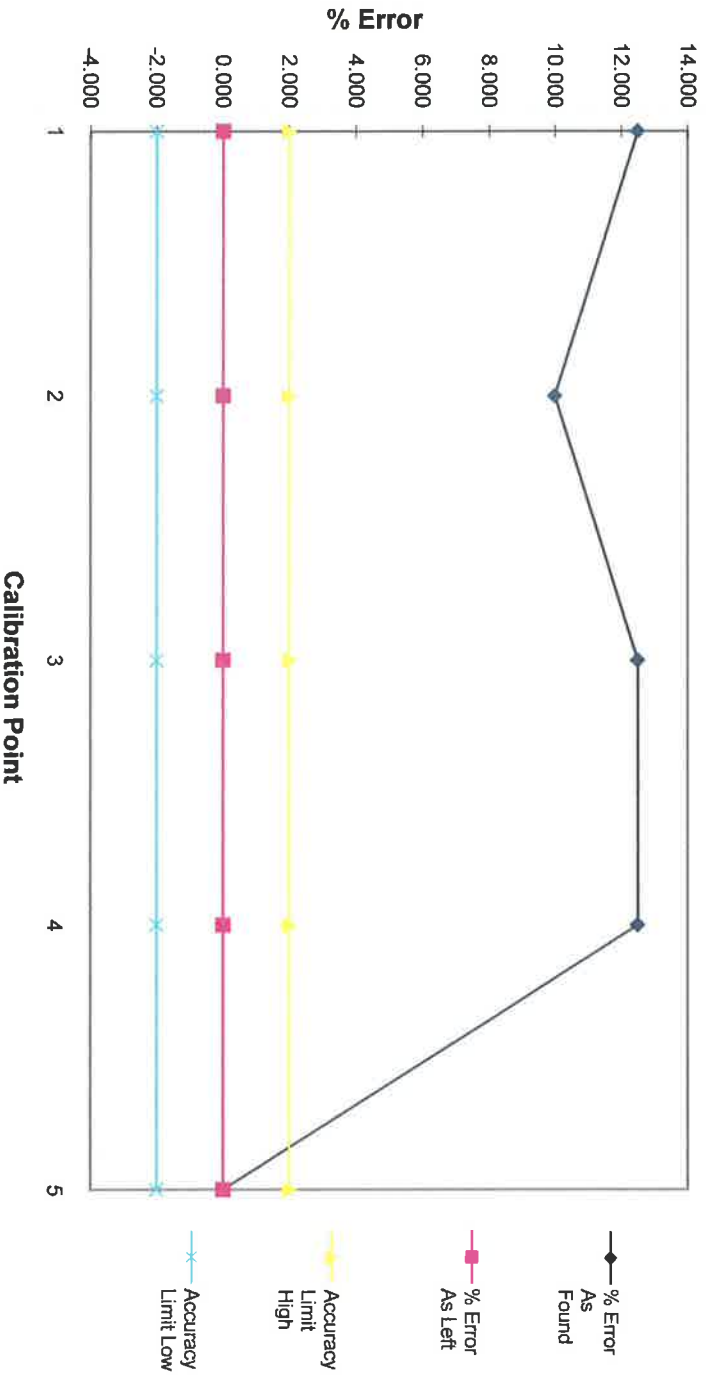
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.			
Application/Service <b>Process Water Decanter</b>			Tag No. <b>PWD-MAG</b>			
Manufacturer <b>Magnehelic</b>		Model No. <b>n/a</b>		Serial No. <b>n/a</b>		
Instrument		<b>X</b>				
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>10</b>	Hi Range Value <b>50</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>10</b>	Hi Range Value <b>50</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	10	10	15	12.500	10	0.000
25%	20	20	24	10.000	20	0.000
50%	30	30	35	12.500	30	0.000
75%	40	40	45	12.500	40	0.000
100%	50	50	50	0.000	50	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



## Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant				Tag No.	
Application/Service				PWD-MAG	
Process Water Decante		Model No.		Serial No.	
Manufacturer		n/a		n/a	
Magnehelic					





# PASS3

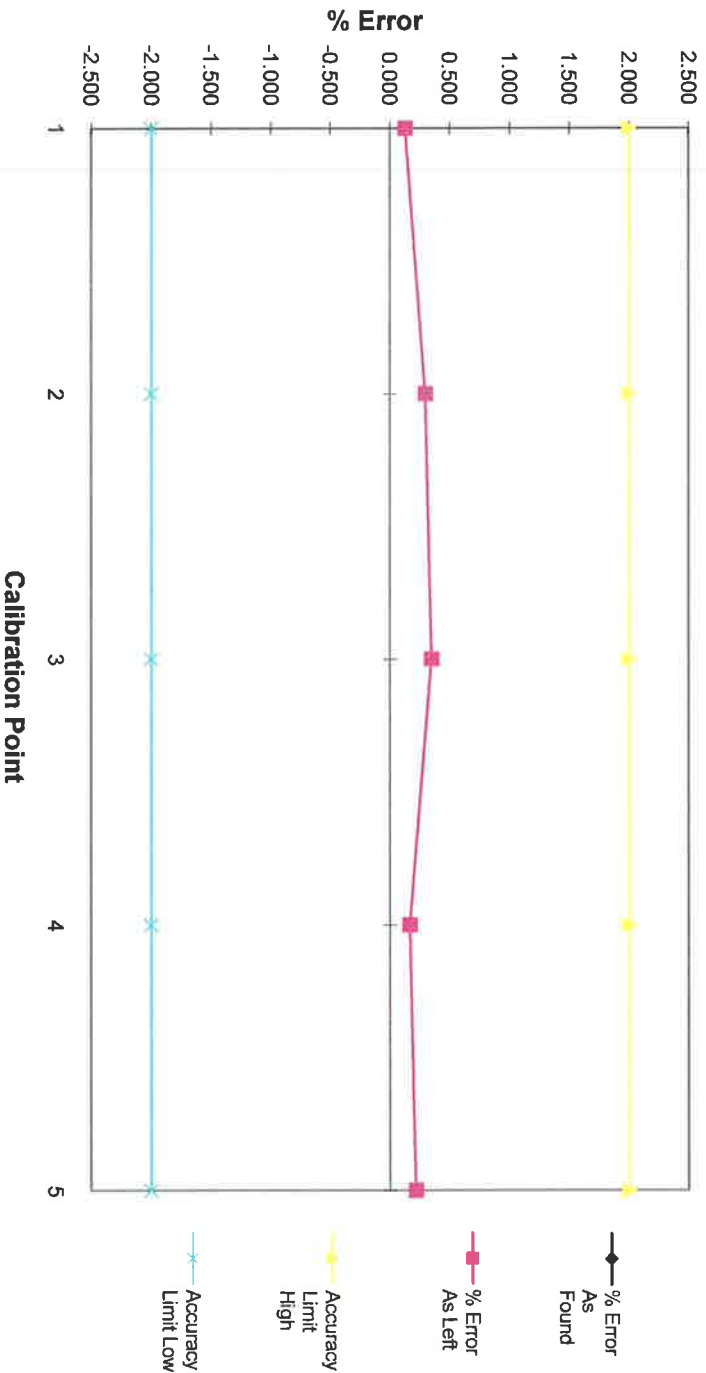
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.			
Application/Service <b>Process Water Decanter</b>			Tag No. <b>PWD-PT</b>			
Manufacturer <b>Rosemount</b>		Model No. <b>3051 CD1A22A1AB4K5</b>		Serial No. <b>703218</b>		
Instrument			<b>X</b>			
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	-2	4	4.021	0.131	4.021	0.131
25%	2	8	8.048	0.300	8.048	0.300
50%	6	12	12.056	0.350	12.056	0.350
75%	10	16	16.027	0.169	16.027	0.169
100%	14	20	20.035	0.219	20.035	0.219
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		on file	on file	
Output Device	Local Display					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



## Calibration Results Chart

Customer Name <b>ABC Coke Plant</b>		Customer No.	Contract/P. O. No.
Application/Service <b>Process Water Decante</b>		Tag No.	<b>PWD-PT</b>
Manufacturer <b>Rosemount</b>	Model No. <b>3051 CD1A22A1AB4K5</b>	Serial No. <b>703218</b>	



# PASS 3

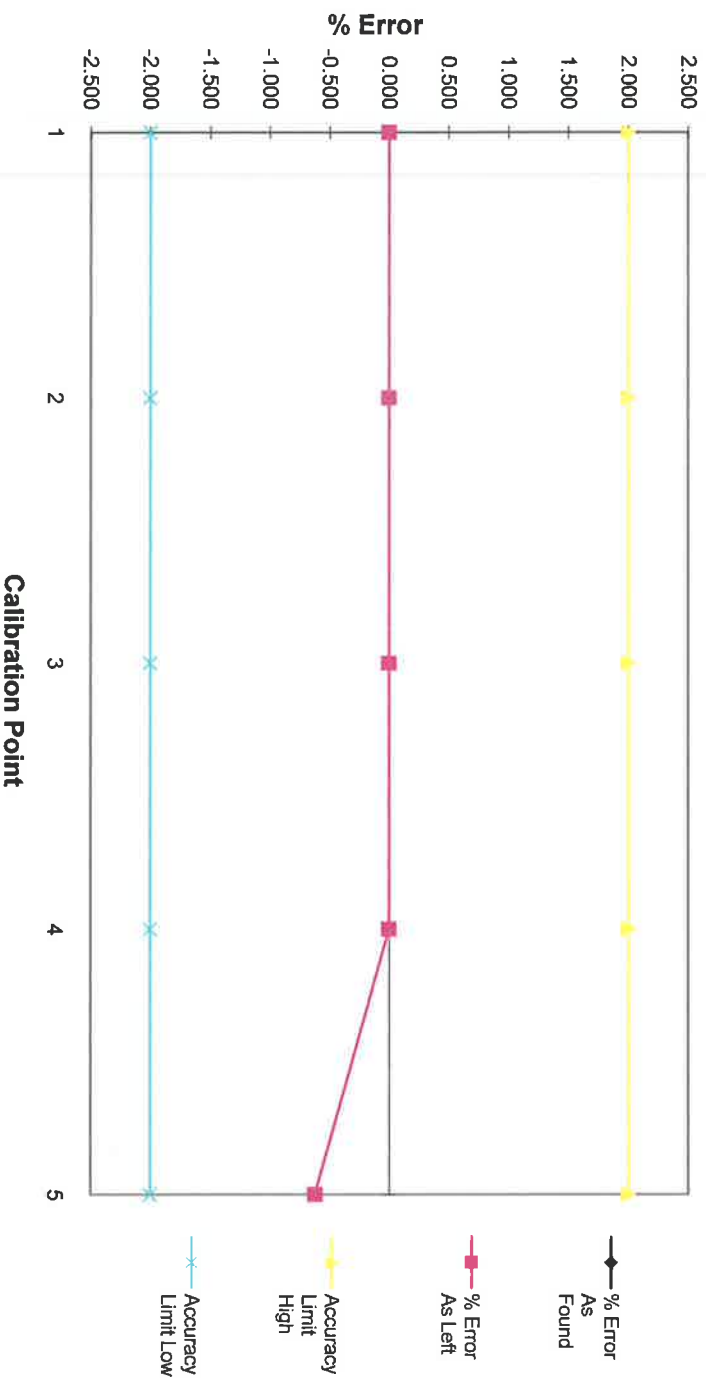
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.			
Application/Service <b>Process Water Decanter</b>			Tag No. <b>PWD-YC</b>			
Manufacturer <b>Yokogawa</b>		Model No. <b>UT-550</b>		Serial No. <b>T 5007RH188-738</b>		
Instrument			<b>X</b>			
Type	Transmitter	Indicator	Controller	Recorder	Gauge Thermometer	
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	-2	-2.0	0.000	-2.0	0.000
25%	8	2	2.0	0.000	2.0	0.000
50%	12	6	6.0	0.000	6.0	0.000
75%	16	10	10.0	0.000	10.0	0.000
100%	20	14	13.9	-0.625	13.9	-0.625
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				

# PASS 3

## Calibration Results Chart

Customer Name		Customer No.		Contract/P.O. No.	
ABC Coke Plant					
Application/Service		Tag No.			
Process Water Decante		PWD-YC			
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		T 5007RH188-738	



# PASS 3

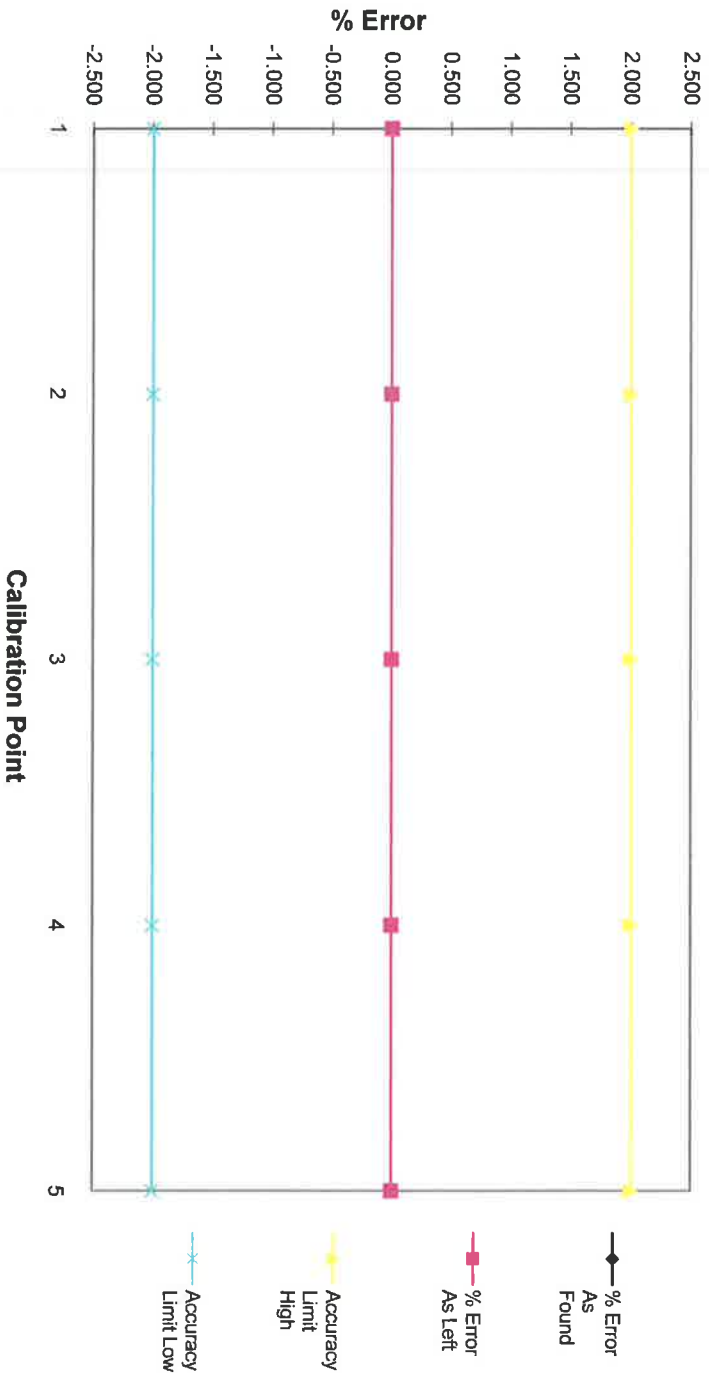
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.	
Application/Service <b>Tar Tank Control Box</b>			Tag No. <b>TTCB-CV</b>	
Manufacturer <b>Fisher</b>		Model No. <b>n/a</b>		Serial No. <b>n/a</b>
Instrument		<b>X</b>		
Type	Transmitter	Indicator	Controller	Recorder
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading
Input Signal Range and Units				
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>	Characteristic <b>Linear</b>	Special <b>Control Valve</b>
Output Signal Range and Units				
Lo Range Value <b>0</b>	Hi Range Value <b>100</b>	Units <b>Percent</b>	Characteristic <b>Linear</b>	Special
Instrument Condition as Found				
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found
0%	4	0	0	0.000
25%	8	25	25	0.000
50%	12	50	50	0.000
75%	16	75	75	0.000
100%	20	100	100	0.000
Comments				
Calibration Equipment Used				
Calibrator	Description	Model No.	Instrument ID	NIST Cert. No.
Input Device	<b>Fluke Calibrator</b>	<b>725</b>	<b>On File</b>	<b>On File</b>
Output Device	<b>Local Display</b>			
Approvals				
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By	Date Signed	
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature		



# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Tar Tank Control Box				TTCB-CV	
Manufacturer		Model No.		Serial No.	
Fisher		n/a		n/a	



# PASS 3

## Calibration Certification

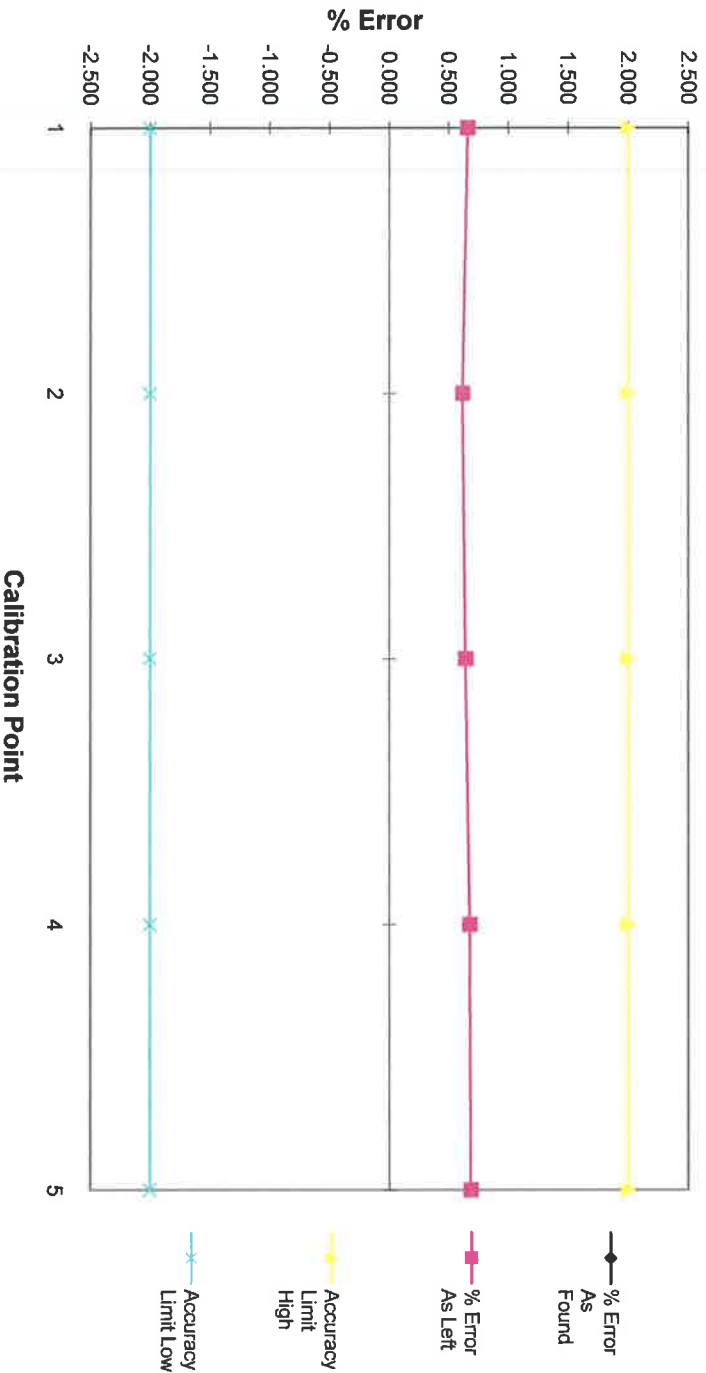
Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Tar Tank Control Box</b>					Tag No. <b>TTCB-IP</b>	
Manufacturer <b>Brandt</b>		Model No. <b>STD5131</b>			Serial No. <b>M513000F-16278</b>	
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>3</b>	Hi Range Value <b>15</b>	Units <b>PSIG</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	3	3.079	0.658	3.079	0.658
25%	8	6	6.074	0.617	6.074	0.617
50%	12	9	9.077	0.642	9.077	0.642
75%	16	12	12.081	0.675	12.081	0.675
100%	20	15	15.082	0.683	15.082	0.683
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		On File	On File	
Output Device	Fluke Calibrator	725		On File	On File	
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				





# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Tar Tank Control Box				TTCB-IP	
Manufacturer		Model No.		Serial No.	
Brandt		STD5131		M513000F-16278	



# PASS 3

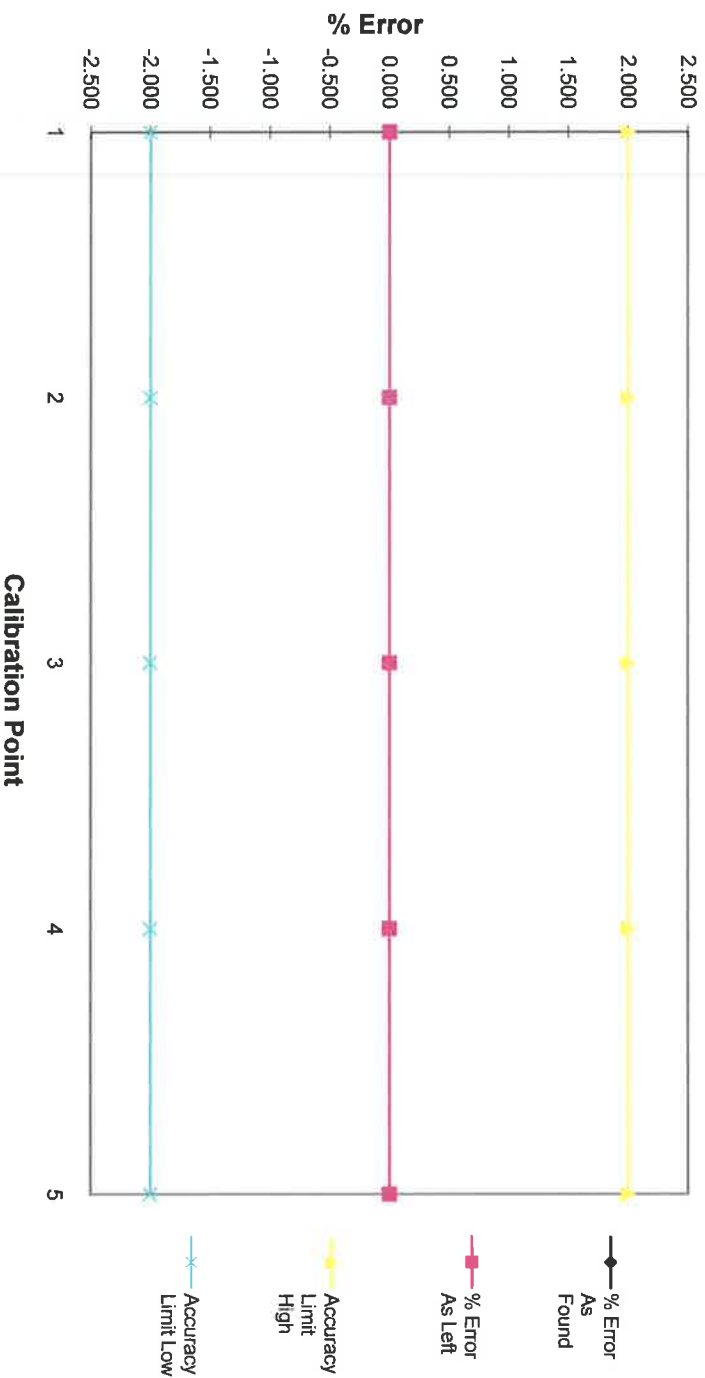
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Tar Tank Control Box</b>					Tag No. <b>TTCB-MAG</b>	
Manufacturer <b>Magnehelic</b>		Model No. <b>2000-oc</b>			Serial No. <b>R98085RM15</b>	
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>0.10</b>	Hi Range Value <b>0.50</b>	Units <b>PSIG</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>0.10</b>	Hi Range Value <b>0.50</b>	Units <b>PSIG</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	0.10	0.10	0.10	0.000	0.10	0.000
25%	0.20	0.20	0.20	0.000	0.20	0.000
50%	0.30	0.30	0.30	0.000	0.30	0.000
75%	0.40	0.40	0.40	0.000	0.40	0.000
100%	0.50	0.50	0.50	0.000	0.50	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	<b>Fluke Calibrator</b>	<b>725</b>		<b>On File</b>	<b>On File</b>	
Output Device	<b>Local</b>					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Tar Tank Control Box				TTCB-MAG	
Manufacturer		Model No.		Serial No.	
Magnehelic		2000-oc		R98085RM15	



# PASS 3

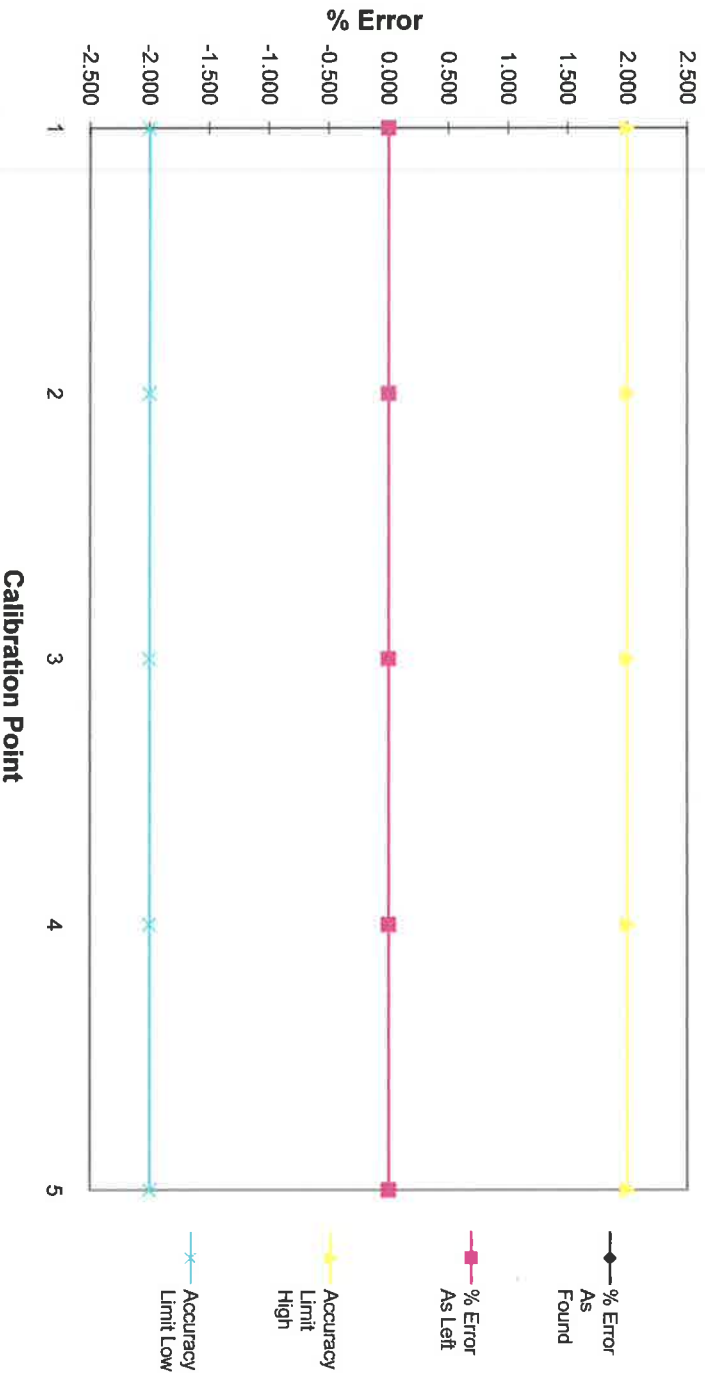
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Tar Tank Control Box</b>					Tag No. <b>TTCB-PT</b>	
Manufacturer <b>Ashcroft</b>		Model No. <b>1XLDP</b>			Serial No. <b>81000122</b>	
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH20</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH20</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	-2	-2				
25%	2	2				
50%	6	6				
75%	10	10				
100%	14	14				
Comments						
Will not calibrate told Charlie needs to be replaced						
Reading 4 " high						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		On File	On File	
Output Device	Fluke Calibrator	725		On File	On File	
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Tar Tank Control Box				TTCB-PT	
Manufacturer		Model No.		Serial No.	
Ashcroft		1XLDP		81000122	



# PASS 3

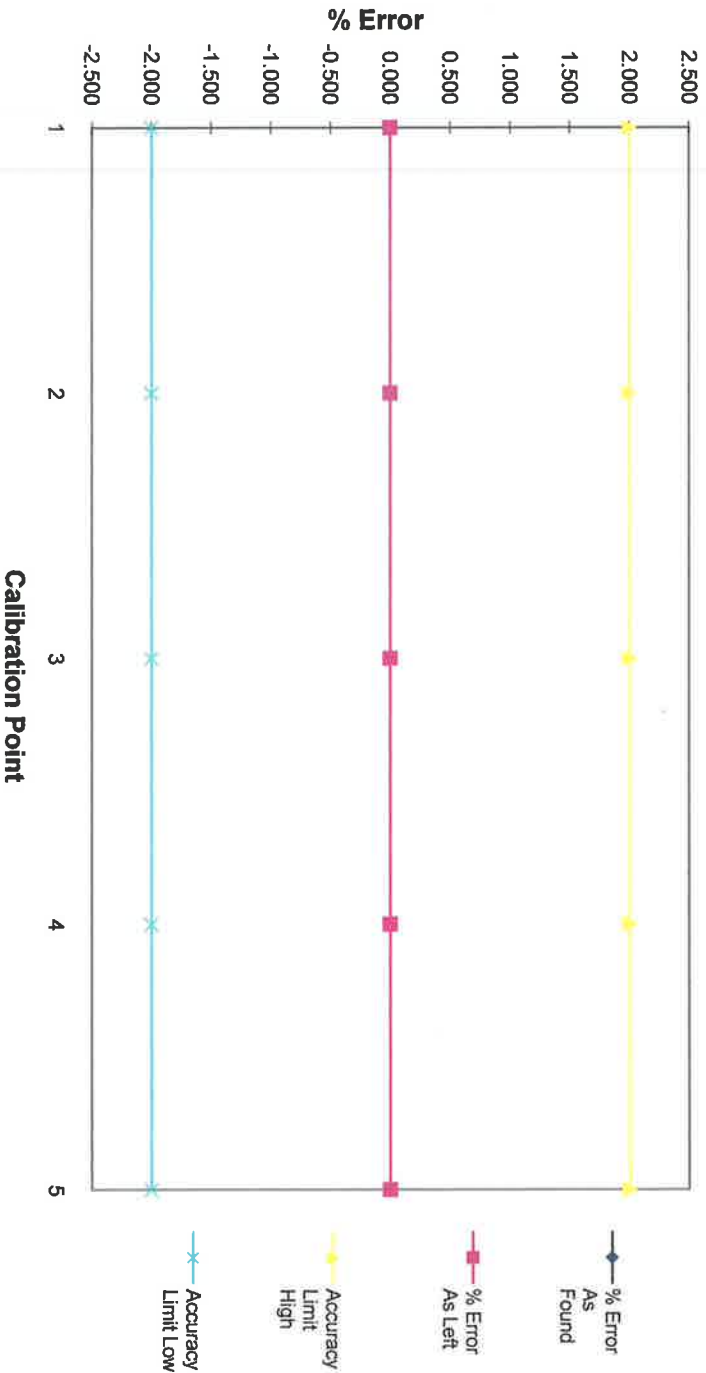
## Calibration Certification

Customer Name <b>ABC Coke Plant</b>					Contract/P.O. No.	
Application/Service <b>Tar Tank Control Box</b>					Tag No. <b>TTCB-YC</b>	
Manufacturer <b>Yokogawa</b>		Model No. <b>UT-550</b>			Serial No. <b>T5007SU155</b>	
Instrument	<b>X</b>					
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>-2</b>	Hi Range Value <b>14</b>	Units <b>INH2O</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	-2	-2.0	0.000	-2.0	0.000
25%	8	2	2.0	0.000	2.0	0.000
50%	12	6	6.0	0.000	6.0	0.000
75%	16	10	10.0	0.000	10.0	0.000
100%	20	14	14.0	0.000	14.0	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		On File	On File	
Output Device	Local Display					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				



# Calibration Results Chart

Customer Name		Customer No.		Contract/P. O. No.	
ABC Coke Plant					
Application/Service				Tag No.	
Tar Tank Control Box				TTCB-YC	
Manufacturer		Model No.		Serial No.	
Yokogawa		UT-550		T5007SU155	





# PASS 3

## Calibration Certification

Customer Name <b>ABC Coke Plant</b>			Contract/P.O. No.			
Application/Service <b>Wash Oil Control Box</b>			Tag No. <b>WOCB-CV</b>			
Manufacturer <b>Fisher</b>		Model No. <b>1052</b>		Serial No. <b>15363423</b>		
Instrument			<b>X</b>			
Type	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
Accuracy		Plus <b>2.0</b>	Minus <b>2.0</b>	<input checked="" type="checkbox"/> % of Span <input type="checkbox"/> % of Reading		
Input Signal Range and Units						
Lo Range Value <b>4</b>	Hi Range Value <b>20</b>	Units <b>MADC</b>		Characteristic <b>Linear</b>	Special	
Output Signal Range and Units						
Lo Range Value <b>0</b>	Hi Range Value <b>100</b>	Units <b>Percent</b>		Characteristic <b>Linear</b>	Special	
Instrument Condition as Found						
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4.00	0.00	0	0.000	0	0.000
25%	8.00	25.00	25	0.000	25	0.000
50%	12.00	50.00	50	0.000	50	0.000
75%	16.00	75.00	75	0.000	75	0.000
100%	20.00	100.00	100	0.000	100	0.000
Comments						
Calibration Equipment Used						
Calibrator	Description	Model No.		Instrument ID	NIST Cert. No.	
Input Device	Fluke Calibrator	725		8218055	1000195484	
Output Device	Local Display					
Approvals						
Hours <b>1.0</b>	Date Work Performed <b>11/24/2008</b>	Accepted By		Date Signed		
PASS 3 Signature <b>JOHN HORTON</b>		Customer Signature				